



Display Specifications

Multiuser interactive LCDs for single display applications

MT550W8 MultiTaction Cell 55" Full HD LCD Embedded Windows 8

Display Specifications	MT550W8
Display Technology	TFT LCD
Display Size	55" 16:9 Wide
Native Resolution	Full HD 1920 x 1080
Display Colors	16.7 million
Display Active Area	1209 x 680 mm
Pixel Pitch	0.63 x 0.63 mm
Pixel Response Time	8 ms grey to grey
Brightness	400 cd/m ²
Contrast Ratio	4000 :1 typical
Picture Frame Rate	60 Hz
Backlight	White LED Matrix Array
Viewing Angle	178°
Touch Sensing Hardware	
Touch technology	Computer Vision Through Screen
Tracking Speed	Over 200 fps
IR Source & cameras	Integrated Backlight Emitter Camera modules
IR Wavelength	850 nm
Touch Surface	
Display Safety Glass	Tempered 4 mm Optiwhite Glass covering whole front surface
Embedded Computer Specifications	
CPU	Intel® Core™ i7 Quad Core
RAM	8 GB
Hard disk	128 GB SSD
Graphics	NVIDIA GTS450 1GB
Operating system	Windows 8 Professional 64-bit ENG
Interfaces	
Video Input	DVI-D
Control Input	Ethernet
Auxiliary input for keyboard, mouse, and extra memory	3 x USB A
Audio out	RCA
Power Connector	IEC C14
Electrical Specifications	
Power Supply	100-240 VAC 50/60 Hz
Power Consumption	490 W
Touch Sensing Details	
Tracking Software	Embedded MultiTaction Extensible Hybrid Tracking Engine
Touch Input Types	Single finger, multiple fingers, single hand, multiple hands and users, infrared pens, objects with optical markers. Click, hold and drag.
Hand Recognition	Each finger identified to certain hand
Pen Recognition	Unlimited simultaneous pen and touch with active infrared pens
Object Recognition	Enriched Reality™ with 2D optical markers and blob tracking for circle, square and rectangle shapes
Number of Simultaneous Touch Inputs	Unlimited ¹
Number of Simultaneous Users	Unlimited (separate hands) ¹
Positional accuracy	2 mm, directional compensation
Relative accuracy	Sub-pixel accuracy
Touch Latency	10 ms typical ²
Tracking Data Outputs/APIs	Multi-Format Tracking Output: Low level C++, TUIO, XML stream, Windows 8 Touch

Operating System Support	Windows 8. (Linux, Mac OS X and Windows 7 with external computer)
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Development Environment Support	Most major programming languages and environments (e.g. MS Surface 2 SDK, Win 8 tools, TUIO-compatible systems) ³
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Software Development Kit	Cornerstone SDK available for C++/OpenGL (Windows 7 and 8, Linux, Mac OS X)
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Stackability	Up to 24 Cells can be connected to run a single Multi-touch application with external computer
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Environment Specifications

Operating Temperature	0 to +35 degrees C
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Storage Temperature	-10 to +60 degrees C ⁴
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Relative Humidity	Non-condensing 80%
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Dimensions and Weight

Physical Dimensions	1242 x 715 x 199 mm
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Bezel width	16 mm (bottom & sides), 17 mm (top)
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Weight	40 kg(+5 kg for two legs)
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Color	Black
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Shipping Dimensions	tbd
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Shipping Weight	tbd
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Display Mounting

VESA Mount	800 x 400 mm, M8 screws
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Mounting positions	Vertical
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	Horizontal
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	Angled position
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	Table position
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Cooling

Cooling system	Forced Air
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Convection method	Low Noise Variable Speed Internal Fans
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Noise Level	30 - 40 dBA
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Miscellaneous

Agency Approvals	CE
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RoHS Compliant	Yes
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Expected Life-time	Over 60,000 h
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Warranty	1 Year
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Sales Package Contents

Display Unit	1
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Power Cords	5 m, EUR, US, GB
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Digital Video Cable	DVI-D 5 m
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USB A-B Cable	5 m
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Cat5e Ethernet Cable	5 m
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Display stand	Table stand for landscape/portrait use
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Protective/autocalibration sheet	1
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Mounting rail bits	2 pcs
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Warranty Card	
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Quick Start Guide	
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Product Manual	English version
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- 1) Practically limited by how many people can fit next to display array.
- 2) Measured from touch to processed tracking data output. Overall latency is more and depends on the computer, operating system and application used.
- 3) See Cornerstone data sheet for more details.
- 4) Allow at least two hours for temperature normalization before switching on

Specifications subject to change without notice.

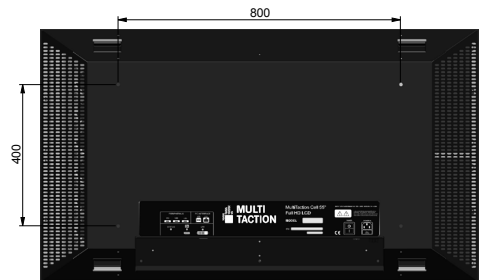
* Not operational. Reserved for future use.



Dimensions

MT550W8

MT550W8 Dimensions
All dimensions in millimeters



The MultiTaction® Cell 55" is only 20 cm (8") deep, but over 120 cm (47") wide and over 71 cm (28") tall.

A pair of table stand supports for landscape or portrait mounting are included.

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